

Patent Abstracts of Japan

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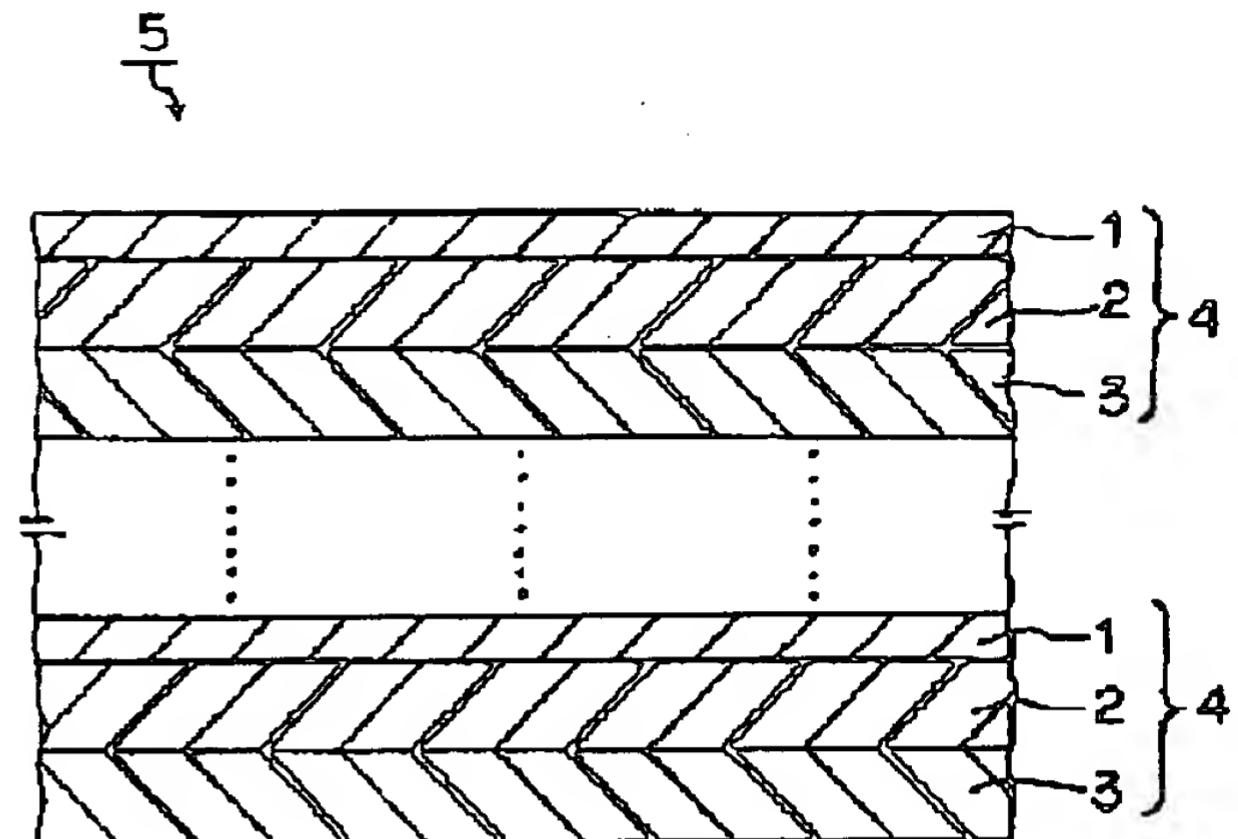
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TITLE : PRESSURE-SENSITIVE ADHESIVE
 BACTERICIDAL SHEET



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a pressure-sensitive adhesive sheet unit layer suitable for preventing bacterial infection in hospitals, high in safety and excellent in bactericidal effect, by providing the surface of a plastic sheet with a tack agent layer and then providing the surface of the tack agent layer with fibers containing titanium dioxide fine particles as a photocatalyst to such an extent as not to lose the tack force of the tack agent layer so as to rapidly exterminate the bacteria caught on the tack agent layer by the catalyst.

SOLUTION: First, methyl methacrylate incorporated with titanium dioxide as a photocatalyst 0.0077-0.5µm in particle size is polymerized and made into powder, which is then kneaded and extruded by a conventional means into pellets. Secondly, the pellets are meltblown on the tack surface of a pressure-sensitive adhesive tape so as to be 15g/m² in basis weight to obtain a pressure-sensitive adhesive sheet unit layer 4. These unit layers 4 are then mutually laminated in 6 to 7 layers to obtain a laminated sheet 5. When the tackiness of the tack agent layer is lowered, the tack agent layer is peeled off together with the plastic sheet and the next tack agent layer can be used.

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